



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

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**D3407-041**  
**Job Sheet 209605**



**Part No:** D3407-041

**Job Qty:** 12 pcs

**Part Name:** Tow Ring



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 5/4/20

**Job Tracking No:**

**Due Date:** 12/1/20

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:**

**Note:** IPP Rev:A 05.10.14 New issue KJ/EC IPP Rev:B 08-09-09 revE as per dwg DD verified by:EC IPP REV:F 17.11.02 AS PER DWG REV.G DD VERF:JFS

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                 | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier      |           | Sign-off    |
|-------|---------------------------|--------|------------|----------|-----------|---------|--------------------------|-----------|-------------|
|       |                           |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier    | Lead Time |             |
| 100   | Large Fab - Welded Assy-1 | 12 pcs | 11/30/20   |          | 0.00      | 2.63    | Large Fab - 1            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 10           |           |             |
|       |                           |        |            |          |           |         | Large Fab - 2            |           | MV 15/04/20 |
|       |                           |        |            |          |           |         | Large Fab - 3            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 4            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 5            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 6            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 7            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 8            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 9            |           |             |
|       |                           |        |            |          |           |         | Large Fab - 11 (Various) |           |             |
|       |                           |        |            |          |           |         | Large Fab - 12           |           |             |
| 110   | QC 9                      | 12 pcs | 11/30/20   |          | 0.00      | 0.00    | QC 9 - 10                |           |             |
|       |                           |        |            |          |           |         | QC 9 - 18                |           |             |
|       |                           |        |            |          |           |         | QC 9 - 24                |           |             |
|       |                           |        |            |          |           |         | QC 9 - 43                |           | DAS         |
|       |                           |        |            |          |           |         | QC 9 - 50                |           | 50 10/19/20 |
|       |                           |        |            |          |           |         | QC 9 - 9                 |           | 9.89        |
| 120   | QC 5                      | 12 pcs | 11/30/20   |          | 0.00      | 0.00    | QC 5 - 10                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 12                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 17                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 18                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 19                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 22                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 24                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 3                 |           |             |
|       |                           |        |            |          |           |         | QC 5 - 43                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 49                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 51                |           |             |
|       |                           |        |            |          |           |         | QC 5 - 58                |           |             |



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**Container No:** S306605



**Part:** D3407-041

**Job No:** 209605

**Serial No/Batch:** S306605

**Revision:** G

**Inspector:**

**Exp Date:**

**Instructions:** Various STC's

Date: 10/15/20

Plex 5/4/20 2:11 PM Dart.lajeunesse.marie

|                                        |           |         |           |  |                        |             |
|----------------------------------------|-----------|---------|-----------|--|------------------------|-------------|
|                                        |           |         |           |  | QC 5 - 68              |             |
|                                        |           |         |           |  | QC 5 - 9               | DAS         |
|                                        |           |         |           |  | QC 5 - 50              | 50 10-19-20 |
|                                        |           |         |           |  | QC 5 - 30              | 9-89        |
|                                        |           |         |           |  | QC 5 - 40              |             |
|                                        |           |         |           |  | QC 5 - 61              |             |
|                                        |           |         |           |  | QC 5 - 81              |             |
|                                        |           |         |           |  | QC 5 - 82              |             |
| 130 Powdercoat - 2 White Gl(S)-<br>B4B | 12<br>pcs | 12/1/20 | 0.00 0.45 |  | Powdercoat - 1 - B4B   |             |
|                                        |           |         |           |  | Powdercoat - 2 - B4B   |             |
|                                        |           |         |           |  | Powdercoat - 3 - B4B   | 20-10-19    |
|                                        |           |         |           |  | Powdercoat - 4 - B4B   |             |
|                                        |           |         |           |  |                        |             |
| 140 QC 3                               | 12<br>pcs | 12/1/20 | 0.00 0.00 |  | QC 3 - 10              |             |
|                                        |           |         |           |  | QC 3 - 13              |             |
|                                        |           |         |           |  | QC 3 - 15              |             |
|                                        |           |         |           |  | QC 3 - 17              |             |
|                                        |           |         |           |  | QC 3 - 18              |             |
|                                        |           |         |           |  | QC 3 - 2               |             |
|                                        |           |         |           |  | QC 3 - 28              |             |
|                                        |           |         |           |  | QC 3 - 3               |             |
|                                        |           |         |           |  | QC 3 - 30              |             |
|                                        |           |         |           |  | QC 3 - 34              |             |
|                                        |           |         |           |  | QC 3 - 36              |             |
|                                        |           |         |           |  | QC 3 - 41              |             |
|                                        |           |         |           |  | QC 3 - 51              |             |
|                                        |           |         |           |  | QC 3 - 58              |             |
|                                        |           |         |           |  | QC 3 - 59              |             |
|                                        |           |         |           |  | QC 3 - 68              |             |
|                                        |           |         |           |  | QC 3 - 9               |             |
|                                        |           |         |           |  | QC 3 - 40              | OCT 20 2020 |
|                                        |           |         |           |  | QC 3 - 19              |             |
|                                        |           |         |           |  | QC 3 - 43              |             |
|                                        |           |         |           |  | QC 3 - 24              |             |
|                                        |           |         |           |  | QC 3 - 61              |             |
|                                        |           |         |           |  | QC 3 - 81              |             |
|                                        |           |         |           |  | QC 3 - 82              |             |
|                                        |           |         |           |  | QC 3 - 87              |             |
| 150 Packaging 3-1 - Stock - B4B        | 12<br>pcs | 12/1/20 | 0.00 0.00 |  | Packaging 3 - 1 - B4B  |             |
|                                        |           |         |           |  | Packaging 3 - 2 - B4B  |             |
|                                        |           |         |           |  | Packaging 3 - 3 - B4B  |             |
|                                        |           |         |           |  | Packaging 3 - 4 - B4B  |             |
|                                        |           |         |           |  | Packaging 3 - 5 - B4B  | DAS         |
|                                        |           |         |           |  | Packaging 3 - 6 - B4B  | 28          |
|                                        |           |         |           |  | Packaging 3 - 7 - B4B  | 9-89        |
|                                        |           |         |           |  | Packaging 3 - 8 - B4B  |             |
|                                        |           |         |           |  | Packaging 3 - 9 - B4B  | OCT 20 2020 |
|                                        |           |         |           |  | Packaging 3 - 10 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 11 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 12 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 13 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 14 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 15 - B4B |             |
|                                        |           |         |           |  | Packaging 3 - 16 - B4B |             |

|                |        |         |           |                        |                 |
|----------------|--------|---------|-----------|------------------------|-----------------|
|                |        |         |           | Packaging 3 - 17 - B4B |                 |
|                |        |         |           | Packaging 3 - 18 - B4B |                 |
|                |        |         |           | Packaging 3 - 19 - B4B |                 |
|                |        |         |           | Packaging 3 - 20 - B4B |                 |
|                |        |         |           | Packaging 3 - 21 - B4B |                 |
|                |        |         |           | Packaging 3 - 22 - B4B |                 |
|                |        |         |           | Packaging 3 - 23 - B4B |                 |
|                |        |         |           | Packaging 3 - 24 - B4B |                 |
|                |        |         |           | Packaging 3 - 25 - B4B |                 |
|                |        |         |           | Packaging 3 - 26 - B4B |                 |
|                |        |         |           | Packaging 3 - 27 - B4B |                 |
|                |        |         |           | Packaging 3 - 28 - B4B |                 |
|                |        |         |           | Packaging 3 - 29 - B4B |                 |
|                |        |         |           | Packaging 3 - 30 - B4B |                 |
|                |        |         |           | Packaging 3 - 31 - B4B |                 |
|                |        |         |           | Packaging 3 - 32 - B4B |                 |
|                |        |         |           | Packaging 3 - 33 - B4B |                 |
|                |        |         |           | Packaging 3 - 34 - B4B |                 |
|                |        |         |           | Packaging 3 - 35 - B4B |                 |
|                |        |         |           | Packaging 3 - 36 - B4B |                 |
|                |        |         |           | Packaging 3 - 37 - B4B |                 |
| 160 QC 21 - SA | 12 pcs | 12/1/20 | 0.00 0.00 | QC 21 - SA - 21        | DAS OCT 21 2020 |
|                |        |         |           | QC 21 - SA - 70        | 21              |
|                |        |         |           | QC 21 - SA - 53        | 9-99            |

Part Op 100 - Weld D3407-1/-5 using welding rod TIG174 as per Dwg D3407 & QSI 004 A/R TIG174 ROD  
 Descriptions: Batch: M139024  
 110 - QC9- Inspect visual per QSI004- Fusion Welds)  
 120 - (QC5- Inspect part completeness to step on W/O)  
 130 - (White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel) \*\*Mask Threaded Section\*\* START TIME: 2:00 OVEN  
 TEMPERATURE: 400° FINISH TIME: 2:30  
 140 - (QC3- Inspect Part Finish)  
 150 - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
 160 - (QC21- Final Inspection - Work Order Release)

## Job BOM

| Part / Item | Component Name | Quantity      | Operation                     | Container                 |
|-------------|----------------|---------------|-------------------------------|---------------------------|
| D3407-1     | Stem           | 12 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | <u>5289088</u>            |
| D3407-5     | Ring           | 12 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | x8 <u>5285596/5290871</u> |

## Job Allocations

| Operation                     | Component Part | Required | Inventory | Allocated |
|-------------------------------|----------------|----------|-----------|-----------|
| 100-Large Fab - Welded Assy-1 | D3407-1        | 12       | 58        | 0         |
|                               | D3407-5        | 12       | 26        | 0         |

**Part Specifications**

Specifications could not be found.

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |              |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | MRB (QSI042) |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Disposition            |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Completed By           |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lead hand / Supervisor |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | QC / QA Coordinator    |              |  |
| <b>Root Cause</b><br><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |                        |              |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |              |  |